

Errata

Any late errata affecting assignments will be notified on the module website, so please check the website before embarking on each assignment.

Known corrections for the MS221 materials are listed here. (You may find, if you have received the latest edition of any of these texts, that some of the corrections below have already been made.)

Note that a negative line reference indicates counting from the bottom of the page.

Various references

Note that the *Assessment Handbook Undergraduate Courses* is available from your OU StudentHome webpage.

MS221 Handbook

Page 43 below table

The scalings and translations in the table above can with two exceptions be applied in any order with the same result. The exceptions are that the result of applying both a horizontal translation and an x-scaling depends in general on the order in which these are applied, and similarly for both a vertical translation and a y-scaling.

Computer Books A-D

Page 73 1st margin note

The 1st margin note on page 73 is partially hidden. It should be in the right hand margin, and read..

'Remember that Mathcad notes are *optional*.'

Chapter B1

Page 30 Figure 2.11

$$x_0 = -\frac{1}{2}$$

Page 39 In the example immediately following the Definition box, replace ' $a_2 \approx -0.023830$ ' with ' $a_2 \approx 0.023830$ ', and replace the displayed equation on the subsequent line with ' $\mu = f'(a_1)f'(a_2)f'(a_3) = (2a_1)(2a_2)(2a_3) \approx -0.45$, and $|-0.45| < 1$.'

Page 54 Solution 3.3(b)

The final line should read $a \approx 0.618, b \approx -1.618$.

Page 57 Solution 2.2(b), final sentence

The word 'whereas' should be moved, so that the final part of the sentence reads 'whereas the fixed point o is repelling'.

Chapter B2

Page 10 Activity 1.5. Part (b)

should read "Determine the position vectors of the points S and T in the particular case where $P=(2,5)$ and $Q=(1,-3)$."

Page 18 Figure 2.2

The arrow linking the two graphs should be labelled 'g', not 'f'.

Page 58 Figure S.12

Add in the gridlines in the directions of the vectors **a** and **b**.

Page 60 Figure S.18

$k = 0$ should appear in a 'cloud' alongside the line $3x + y = 0$.

Page 62 Figure S.19

f should appear alongside the arrow between the top two grids.

Exercise Booklet B

Page 5 Exercise 1.1. Part (b)

Should read "Determine the position vectors of the points S and T in the particular case where $P=(3,-1)$ and $Q=(-7,11)$."

Page 11 Solution 1.2(b) - *for information*

A quick way to rearrange is to multiply through by $\frac{3}{2}$ to obtain $x + \frac{1}{x^2} = \frac{3}{2}x$.

Chapter D3

Page 43 line 3

... a **frieze** is a plane set whose symmetry group **contains** non-trivial translations ...

Page 43 line -9

A **wallpaper** is, ..., a plane set whose symmetry group **contains** non-trivial ...